AMENDMENTS TO THE CLAIMS

- 1. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer,
- comprising at least the steps of:
 forming an LED stack over a first substrate;
 forming a first reaction layer over said LED stack;
 forming a reflective layer over a second substrate;
 forming a second reaction layer over said reflective layer;
- and holding together said first reaction layer and said second reaction layer by means of a transparent adhesive layer.
- 2. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, wherein said reflective layer is a reflective metal layer.
- 3. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 2, wherein said reflective metal layer comprises at least a material selected from the group consisting of In, Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge, Cu, AuBe, AuGe, Ni, PbSn, AuZn, and the like.

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4. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, wherein said reflective layer is a reflective oxide layer.

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5. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer

according to claim 4, wherein said reflective oxide layer comprises at least a material selected from the group consisting of SiNx, SiO₂, Al2O3, TiO2, MgO, and the like.

- 6. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, wherein said transparent adhesive layer comprises at least a material selected from the group consisting of polyimide (PI), benzocyclobutene (BCB), perfluorocyclobutane (PFCB), and the like.
 - 7. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, Cr, and the like.
- 8. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, wherein forming a reflective layer over a second substrate comprises the steps of forming a semiconductor stack over said second substrate and forming a reflective layer over said semiconductor stack.

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9. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 1, further comprising the step of removing said first substrate.

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10. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer,

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comprising at least the steps of:
forming an LED stack over a first substrate;
forming a first reaction layer over said LED stack;
forming a second reaction layer over a reflective metal substrate; and
holding together said first reaction layer and said second reaction layer by means of a transparent adhesive layer.

- 11. (withdrawn): A method for manufacturing a light emitting
 10 diode having an adhesive layer and a reflective layer
 according to claim 10, wherein said reflective metal
 substrate comprises at least a material selected from the
 group consisting of Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge,
 Cu, AuBe, AuGe, Ni, PbSn, AuZn, and the like.
- 12. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 10, wherein said transparent adhesive layer comprises at least a material selected from the group consisting of polyimide (PI), benzocyclobutene (BCB), perfluorocyclobutane (PFCB), and the like.
- 13. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 10, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, Cr, and the like.
- 30 14. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 10, wherein the step of forming a second

reaction layer over a reflective metal substrate comprises the steps of forming a reflective layer over said reflective metal substrate and forming a second reaction layer over said reflective layer.

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15. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 10, further comprising the step of removing said first substrate.

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- 16. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer, comprising at least the steps of:
 - forming an LED stack over a first substrate;
- forming a reflective layer over said LED stack;
 forming a first reaction layer over said reflective layer;
 forming a second reaction layer over a second substrate;
 and
- holding together said first reaction layer and said second reaction layer by means of an adhesive layer.
 - 17. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 16, wherein said reflective layer is a reflective metal layer.
 - 18. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 16, wherein said reflective layer is a reflective oxide layer.
 - 19. (withdrawn): A method for manufacturing a light emitting

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diode having an adhesive layer and a reflective layer according to claim 17, wherein said reflective metal layer comprises at least a material selected from the group consisting of In, Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge, Cu, AuBe, AuGe, Ni, PbSn, AuZn, and the like.

- 20. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 18, wherein said reflective oxide layer comprises at least a material selected from the group consisting of SiNx, SiO₂, Al2O3, TiO2, MgO, and the like.
- 21. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 16, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, Cr, and the like.
- 20 22. (withdrawn): A method for manufacturing a light emitting diode having an adhesive layer and a reflective layer according to claim 16, further comprising the step of removing said first substrate.
- 25 23. (currently amended): A light emitting diode having an adhesive layer and a reflective layer, comprising at least:
 - a substrate;
 - a reflective layer formed over the substrate;
 - a first reaction layer formed over said reflective layer;
- a transparent adhesive layer formed over said first reaction layer;
 - a second reaction layer formed over said transparent

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adhesive layer;
and an LED stack formed over said second reaction
layer[[.]];

wherein at least one reaction layer is formed to enhance an adhesion provided by the transparent adhesive layer.

- 24. (original): A light emitting diode having an adhesive layer and a reflective layer according to claim 23, further comprising a transparent conductive layer between said second reaction layer and said LED stack.
- 25. (original): A light emitting diode having an adhesive layer and a reflective layer according to claim 23, wherein said reflective layer is a reflective metal layer.

26. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 23, wherein said

reflective layer is a reflective oxide layer.

- 27. (previously presented): A light emitting diode having an adhesive layer and a reflective layer according to claim 25, wherein said reflective metal layer comprises at least a material selected from the group consisting of In, Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge, Cu, AuBe, AuGe, Ni, PbSn, and AuZn.
 - 28. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 26, wherein said reflective oxide layer comprises at least a material selected from the group consisting of SiNx, SiO₂, Al2O3, TiO2, and MgO.

- 29. (previously presented): A light emitting diode having an adhesive layer and a reflective layer according to claim 23, wherein said transparent adhesive layer comprises at least a material selected from the group consisting of polyimide (PI), benzocyclobutene (BCB), and perfluorocyclobutane (PFCB).
- 30. (previously presented): A light emitting diode having an adhesive layer and a reflective layer according to claim 23, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, and Cr.
- 31. (withdrawn): A light emitting diode having an adhesive layer

 and a reflective layer, comprising at least:
 a substrate;
 a first reaction layer formed over the substrate;
 a adhesive layer formed over said first reaction layer;
 a second reaction layer formed over said adhesive layer;
 a reflective layer formed over said second reaction layer;
 - a reflective layer formed over said second reaction layer; and
 - an LED stack formed over said reflective layer.
- 32. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 31, further comprising a transparent conductive layer between said reflective layer and said LED stack.
- 33. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 31, wherein said reflective layer is a reflective metal layer.

- 34. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 31, wherein said reflective layer is a reflective oxide layer.
- 5 35. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 33, wherein said reflective metal layer comprises at least a material selected from the group consisting of In, Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge, Cu, AuBe, AuGe, Ni, PbSn, AuZn, and the like.
- 36. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 34, wherein said reflective oxide layer comprises at least a material selected from the group consisting of SiNx, SiO₂, Al2O3, TiO2, MgO, and the like.
- 37. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 31, wherein said transparent adhesive layer comprises at least a material selected from the group consisting of polyimide (PI), benzocyclobutene (BCB), perfluorocyclobutane (PFCB), and the like.
- 38. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 31, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, Cr, and the like.

39. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer, comprising at least:

- a reflective metal substrate;
- a first reaction layer formed over the reflective metal substrate;
- a transparent adhesive layer formed over said first reaction
- 5 layer;

- a second reaction layer formed over said transparent adhesive layer;
- and an LED stack formed over said second reaction layer.
- 40. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 39, further comprising a transparent conductive layer between said second reaction layer and said LED stack.
- 15 41. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 39, wherein said reflective metal substrate comprises at least a material selected from the group consisting of Sn, Al, Au, Pt, Zn, Ag, Ti, Pb, Pd, Ge, Cu, AuBe, AuGe, Ni, PbSn, and AuZn.
 - 42. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 39, wherein said transparent adhesive layer comprises at least a material selected from the group consisting of polyimide (PI),
- benzocyclobutene (BCB), and perfluorocyclobutane (PFCB).
 - 43. (withdrawn): A light emitting diode having an adhesive layer and a reflective layer according to claim 39, wherein said first reaction layer or said second reaction layer comprises at least a material selected from the group consisting of SiNx, Ti, and Cr.

- 44. (currently amended): A light emitting diode having an adhesive layer and a reflective layer, comprising at least:
 - a reflective means;
 - a first reaction layer formed over said reflective means;
- a transparent adhesive layer formed over said first reaction layer;
 - a second reaction layer formed over said transparent adhesive layer; and
- an LED stack formed over said second reaction layer [[.]]:

 wherein at least one reaction layer is formed to enhance
 an adhesion provided by the transparent adhesive layer.